



OIPE

RAW SEQUENCE LISTING

DATE: 11/21/2002

PATENT APPLICATION: US/09/770,169A

TIME: 11:20:53

Input Set : A:\UC053.001A.2.txt

Output Set : N:\CRF4\11212002\I770169A.raw

4 <110> APPLICANT: Saxon, Andrew
 5 Zhang, Ke
 6 <120> TITLE OF INVENTION: IMMUNOGLOBULIN CLASS SWITCH
 7 RECOMBINATION
 8 <130> FILE REFERENCE: UC053.001A
 9 <140> CURRENT APPLICATION NUMBER: 09/770,169A
 C--> 13 <141> CURRENT FILING DATE: 2002-11-04
 14 <150> NUMBER OF SEQ ID NOS: 108
 15 <160> SOFTWARE: FastSEQ for Windows Version 4.0
 16 <210> SEQ ID NO: 1
 20 <211> LENGTH: 17
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Artificial Sequence
 24 <214> FEATURE:
 25 <215> OTHER INFORMATION: Artificial Sequence = synthetic peptide
 27 <400> SEQUENCE: 1
 30 attgctcggg cggcgacac accggag 27
 31 <210> SEQ ID NO: 2
 32 <211> LENGTH: 11
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Artificial Sequence
 35 <214> FEATURE:
 36 <215> OTHER INFORMATION: Artificial Sequence = synthetic peptide
 38 <400> SEQUENCE: 2
 41 attctcagtt gggatggcct ctacactccc t 31
 42 <210> SEQ ID NO: 3
 43 <211> LENGTH: 22
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Artificial Sequence
 46 <214> FEATURE:
 47 <215> OTHER INFORMATION: Artificial Sequence = synthetic peptide
 49 <400> SEQUENCE: 3
 50 ctgagaagctt tattcccgta gt 22
 51 <210> SEQ ID NO: 4
 52 <211> LENGTH: 24
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Artificial Sequence
 55 <214> FEATURE:
 56 <215> OTHER INFORMATION: Artificial Sequence = synthetic peptide
 60 <400> SEQUENCE: 4
 61 cgcacagcctt agtttctatt ggctc 24
 62 <210> SEQ ID NO: 5
 63 <211> LENGTH: 28

ENTERED

RAW SEQUENCE LISTING

DATE: 11/21/2002

PATENT APPLICATION: US/09/770,169A

TIME: 11:20:53

Input Set : A:\UC053.001A.2.txt

Output Set: N:\CRF4\11212002\I770169A.raw

```

65 <212> TYPE: DNA
66 <213> ORGANISM: Artificial Sequence
68 <220> FEATURE:
69 <223> OTHER INFORMATION: Artificial Sequence = synthetic peptide
71 <400> SEQUENCE: 5
72 attagatgg cttaactgag cctaaagt                28
74 <210> SEQ ID NO: 6
75 <211> LENGTH: 16
76 <212> TYPE: DNA
77 <213> ORGANISM: Artificial Sequence
79 <220> FEATURE:
90 <223> OTHER INFORMATION: Artificial Sequence = synthetic peptide
91 <400> SEQUENCE: 6
92 atttttcagg ttacggggga ggtgtg                26
93 <210> SEQ ID NO: 7
94 <211> LENGTH: 14
95 <212> TYPE: DNA
96 <213> ORGANISM: Artificial Sequence
98 <220> FEATURE:
99 <223> OTHER INFORMATION: Artificial Sequence = synthetic peptide
99 <400> SEQUENCE: 7
99 ggtatagac taacaggtg aact                24
99 <210> SEQ ID NO: 8
99 <211> LENGTH: 8
99 <212> TYPE: DNA
99 <213> ORGANISM: Artificial Sequence
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Artificial Sequence = synthetic peptide
104 <400> SEQUENCE: 8
105 agctctagt ggtgtggact cacactccct                30
105 <210> SEQ ID NO: 9
106 <211> LENGTH: 18
106 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Artificial Sequence = synthetic peptide
111 <400> SEQUENCE: 9
112 agctttatt ggtgtagttt atcacagt                28
112 <210> SEQ ID NO: 10
113 <211> LENGTH: 17
113 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: Artificial Sequence = synthetic peptide
116 <400> SEQUENCE: 10
117 caaacatc cagccaggca gaagtat                27
119 <210> SEQ ID NO: 11
120 <211> LENGTH: 29
131 <212> TYPE: DNA

```


RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/770,169A

DATE: 11/21/2002

TIME: 11:20:53

Input Set : A:\UC053.001A.2.txt

Output Set : N:\CRF4\11212002\I770169A.raw

```

132 <21> ORGANISM: Artificial Sequence
134 <20> FEATURE:
136 <22> OTHER INFORMATION: Artificial Sequence = synthetic peptide
137 <400> SEQUENCE: 11
138 ggaagcatt ct'acacga tacaacctg
139 <210> SEQ ID NO: 12
141 <211> LENGTH: 17
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
144 <20> FEATURE:
146 <22> OTHER INFORMATION: Artificial Sequence = synthetic peptide
147 <400> SEQUENCE: 12
148 tttgcacac cat'acacga actggag
149 <210> SEQ ID NO: 13
151 <211> LENGTH: 11
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
154 <20> FEATURE:
156 <22> OTHER INFORMATION: Artificial Sequence = synthetic peptide
157 <400> SEQUENCE: 13
158 tttatctcag gaa'ccacaa gggag
159 <210> SEQ ID NO: 14
161 <211> LENGTH: 11
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
164 <20> FEATURE:
166 <22> OTHER INFORMATION: Artificial Sequence = synthetic peptide
167 <400> SEQUENCE: 14
168 gttgatact cca'ggatgt a
169 <210> SEQ ID NO: 15
171 <211> LENGTH: 15
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
174 <20> FEATURE:
176 <22> OTHER INFORMATION: Artificial Sequence = synthetic peptide
177 <400> SEQUENCE: 15
178 tttaccttg agc'atagtg gccaa
179 <210> SEQ ID NO: 16
181 <211> LENGTH: 14
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
184 <20> FEATURE:
186 <22> OTHER INFORMATION: Artificial Sequence = synthetic peptide
187 <400> SEQUENCE: 16
188 tttaacaa ggg'actgct catt
189 <210> SEQ ID NO: 17
191 <211> LENGTH: 22
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence

```


RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/770,169A

DATE: 11/21/2002

TIME: 11:20:53

Input Set : A:\UC053.001A.2.txt

Output Set: N:\CRF4\11212002\I770169A.raw

```

200 <220> FEATURE:
201 <220> OTHER INFORMATION: Artificial Sequence = synthetic peptide
203 <100> SEQUENCE: 17
204 tttatccagc agaactcagt ttgaatcac 29
206 <210> SEQ ID NO: 15
207 <210> LENGTH: 12
208 <210> TYPE: DNA
209 <210> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <220> OTHER INFORMATION: Artificial Sequence = synthetic peptide
214 <100> SEQUENCE: 17
215 gccacgtt a ctacacaca ac 22
217 <210> SEQ ID NO: 19
218 <210> LENGTH: 10
219 <210> TYPE: DNA
220 <210> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 19
222 tgggtgac tgggtggc tgggtgggc tgagcgggc 40
223 <210> SEQ ID NO: 20
224 <210> LENGTH: 40
225 <210> TYPE: DNA
226 <210> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 20
228 tgggtgac tgggtgtg gaagccagga ccagccaggg 40
229 <210> SEQ ID NO: 21
230 <210> LENGTH: 19
231 <210> TYPE: DNA
232 <210> ORGANISM: Homo sapiens
233 <400> SEQUENCE: 21
234 cagccatcg taccacggc gtaaccagac gaccagggc 39
235 <210> SEQ ID NO: 22
236 <210> LENGTH: 40
237 <210> TYPE: DNA
238 <210> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 22
240 caaacagg ccaatgggt gagctgagct gaactgggt 40
241 <210> SEQ ID NO: 23
242 <210> LENGTH: 40
243 <210> TYPE: DNA
244 <210> ORGANISM: Homo sapiens
245 <400> SEQUENCE: 23
246 caaacagg ccaatgggt ggcaggagct gggtagtgc 40
247 <210> SEQ ID NO: 24
248 <210> LENGTH: 40
249 <210> TYPE: DNA
250 <210> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 24
252 caactcagc cctagatctt ggcaggagct gggtagtgc 40
253 <210> SEQ ID NO: 25

```


RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/770,169A

DATE: 11/21/2002

TIME: 11:20:53

Input Set : A:\UC053.001A.2.txt

Output Set: N:\CRF4\11212002\I770169A.raw

```

266 <211> LENGTH: 40
267 <212> TYPE: DNA
268 <213> ORGANISM: Homo sapiens
270 <400> SEQUENCE: 25
271 ttgaactcag ttgagctgag ctgagctgag ctgggcctag          40
272 <210> SEQ ID NO: 26
274 <211> LENGTH: 40
275 <212> TYPE: DNA
276 <213> ORGANISM: Homo sapiens
278 <400> SEQUENCE: 26
279 ttgaactcag ttgagctgag cagagcagag gccactgagg          40
280 <210> SEQ ID NO: 27
282 <211> LENGTH: 40
283 <212> TYPE: DNA
284 <213> ORGANISM: Homo sapiens
286 <400> SEQUENCE: 27
287 ttgaactcag ttgagctgag cagagcagag gccactgagg          40
288 <210> SEQ ID NO: 28
290 <211> LENGTH: 39
291 <212> TYPE: DNA
292 <213> ORGANISM: Homo sapiens
294 <400> SEQUENCE: 28
295 ttgacttcag ttgagctgct agcgggctga gctgagctg          39
296 <210> SEQ ID NO: 29
298 <211> LENGTH: 40
299 <212> TYPE: DNA
300 <213> ORGANISM: Homo sapiens
302 <400> SEQUENCE: 29
303 ttgacttcag ttgagctgct agcctcctgg tgccgggaag          40
304 <210> SEQ ID NO: 30
306 <211> LENGTH: 40
307 <212> TYPE: DNA
308 <213> ORGANISM: Homo sapiens
310 <400> SEQUENCE: 30
311 gctcctgaga agtgcagtgc agcctcctgg tgccaggaag          40
312 <210> SEQ ID NO: 31
314 <211> LENGTH: 40
315 <212> TYPE: DNA
316 <213> ORGANISM: Homo sapiens
318 <400> SEQUENCE: 31
319 agcagactga cccagcagag cagaggccac tgaggagctg          40
320 <210> SEQ ID NO: 32
322 <211> LENGTH: 40
323 <212> TYPE: DNA
324 <213> ORGANISM: Homo sapiens
326 <400> SEQUENCE: 32
327 agcagactga cccagcagag ctgagcgggg ccgagcgggg          40
328 <210> SEQ ID NO: 33
330 <211> LENGTH: 39

```


VERIFICATION SUMMARY

PATENT APPLICATION: US/09/770,169A

DATE: 11/21/2002

TIME: 11:20:54

Input Set : A:\UC053.001A.2.txt

Output Set: N:\CRF4\11212002\I770169A.raw

1:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date